

VIA HAND DELIVERY JANUARY 23, 2001

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: MOORE et al.

Atty. Docket No.: PF378

Application Number: 09/084,491

Group Art Unit: 1652

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Examiner: Slobodyansky, E.

Title: Tissue Plasminogen Activator-Like Protease



**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Claims:**

Claims 88, 96, 104, 112, 114-123, 125, 133, 135-144, 146, 154, 157, 165, 174, and 182 have been rewritten as follows:

88. (Once amended) The isolated nucleic acid molecule of claim ~~76~~87 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

96. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 92 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.

104. (Once amended) The isolated nucleic acid molecule of claim ~~97~~103 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

112. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 108 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.

114. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~wherein said first polynucleotide is 90% or more identical to a the second polynucleotide ~~(a)encoding amino acid residues 21 to 242 of SEQ ID NO:2.~~

115. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~wherein said first polynucleotide is 90% or more identical to a the second polynucleotide ~~(b)encoding amino acid residues 20 to 242 of SEQ ID NO:2.~~

116. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~wherein said first polynucleotide is 90% or more identical to a the second polynucleotide ~~(c)encoding amino acid residues 1 to 242 of SEQ ID NO:2.~~

117. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~wherein said first polynucleotide is 90% or more identical to a the second polynucleotide ~~(d)encoding amino acid residues 4 to 63 of SEQ ID NO:2.~~

118. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide ~~(e)encoding amino acid residues 64 to 242 of SEQ ID NO:2.~~

119. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide ~~(a)encoding amino acid residues 21 to 242 of SEQ ID NO:2.~~

120. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide ~~(b)encoding amino acid residues 20 to 242 of SEQ ID NO:2.~~

121. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide ~~(c)encoding amino acid residues 1 to 242 of SEQ ID NO:2.~~

122. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide ~~(d)encoding amino acid residues 4 to 63 of SEQ ID NO:2.~~

123. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide ~~(e)encoding amino acid residues 64 to 242 of SEQ ID NO:2.~~

125. (Once amended) The isolated nucleic acid molecule of claim ~~113~~124 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

133. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 129 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.

135. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a ~~the~~ second polynucleotide ~~(a) encoding the amino acid sequence of the full length polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

136. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a ~~the~~ second polynucleotide ~~(b) encoding the amino acid sequence of the full length polypeptide, excluding the N-terminal methionine residue, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

137. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a ~~the~~ second polynucleotide ~~(c) encoding the amino acid sequence of the mature polypeptide,~~

~~which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

138. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide (d) ~~encoding the amino acid sequence of the kringle domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

139. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide (e) ~~encoding the amino acid sequence of the protease domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

140. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide (a) ~~encoding the amino acid sequence of the full length polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

141. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide (b) ~~encoding the amino acid sequence of the full length~~

~~polypeptide, excluding the N terminal methionine residue, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

142. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide (c) ~~encoding the amino acid sequence of the mature polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

143. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide (d) ~~encoding the amino acid sequence of the kringle domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

144. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to a the second polynucleotide (e) ~~encoding the amino acid sequence of the protease domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023.~~

146. (Once amended) The isolated nucleic acid molecule of claim ~~134~~ 145 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

154. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 150 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.

157. (Once amended) The isolated nucleic acid molecule of claim ~~155~~156 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

165. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 161 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.

174. (Once amended) The isolated nucleic acid molecule of claim ~~167~~173 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

182. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

- (a) culturing the recombinant host cell of claim 178 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and
- (b) recovering the ~~protein~~polypeptide from the host cell culture.